

WHAT IS CLAIMED IS:

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1. A razor comprising:
a handle,
a head, mounted on the handle, and
within the head, a phase change material.
2. The razor of claim 1 wherein the phase change material has a melting point between about 30 and 50 degrees C.
3. The razor of claim 1 wherein the phase change material has a melting point between about 32 and 45 degrees C.
4. The razor of claim 1 wherein the razor has a discharging interval of greater than 15 seconds.
5. The razor of claim 1 wherein the razor has a recharging time of less than 10 seconds.
6. The razor of claim 5 wherein the razor has a recharging time of less than 5 seconds.
7. The razor of claim 1 wherein the head contains from about 0.1 to 0.5 cm³ of the phase change material.
8. The razor of claim 1 wherein the head contains a sufficient quantity of the phase change material so that the temperature of the head will not exceed the melting temperature of the phase change material under normal use conditions.
9. The razor of claim 1 wherein the phase change material is microencapsulated and the microcapsules are dispersed through the material of the head.

10. The razor of claim 1 wherein the phase change material is disposed in a chamber within the head.

11. The razor of claim 1 wherein the phase change material comprises a paraffin, a low melting salt, a low melting salt containing water of crystallization, a low melting eutectic mixture of organic or inorganic compounds, a low melting metals or alloys.

12. The razor of claim 1 wherein the phase change material comprises an alkyl carboxylic acid.

13. The razor of claim 1 wherein the phase change material is selected from the group consisting of undecanoic acid, decanoic acid, nonadecane, eicosane, and tridecanoic acid.

14. The razor of claim 13 wherein the phase change material is eicosane.

15. The razor of claim 13 wherein the phase change material is nonadecane.

16. The razor of claim 1 comprising a plurality of phase change materials.

17. The razor of claim 16 wherein said phase change materials have different recrystallization/nucleation rates.

18. The razor of claim 1 further comprising an indicator, visible to a user of the razor, constructed to provide a visual indication of whether the razor is thermally charged.

19. The razor of claim 18 wherein the visual indication comprises a color change.

20. The razor of claim 19 wherein the indicator comprises a thermochromic material.

21. The razor of claim 18 wherein the indicator comprises a strip positioned on the razor head.

22. The razor of claim 18 wherein the indicator comprises a thermochromic material distributed through the material of the head.

23. The razor of claim 18 wherein the indicator comprises a thermochromic material coated on a surface of the head.

24. The razor of claim 18 wherein the indicator is constructed to indicate the degree to which the razor is thermally charged.

25. The razor of claim 18 wherein the indicator comprises a plurality of thermochromic materials having different color change temperatures.

26. The razor of claim 18 wherein the indicator displays an alphanumeric indicia or logo to indicate when the razor is thermally charged.

27. The razor of claim 26 wherein the indicia or logo appears when the razor is thermally charged.

28. The razor of claim 9 wherein the microcapsules are distributed through the material of a portion of the head containing a lubricating agent.

29. The razor of claim 1 wherein the phase change material is disposed in a portion of the head containing a lubricating agent.

30. The razor of claim 1 further comprising heat transfer fins on the cartridge constructed to enhance heat transfer from hot water to the cartridge.

31. The razor of claim 1 further comprising a thermally conductive material positioned adjacent the phase change material to enhance thermal energy transfer to and from the phase change material.

32. The razor of claim 31, wherein the thermally conductive material comprises a metal wool or metal foam.

33. The razor of claim 1 further comprising, on the head, a strip constructed to deliver a lubricious substance to the user's skin.

34. The razor of claim 33 wherein the phase change material is positioned with respect to the strip so as to increase the rate of delivery of the lubricious substance relative to the rate at which it would be delivered if the phase change material were not present.

35. The razor of claim 34 wherein the phase change material is incorporated in the strip.

36. A razor comprising:
a handle,
a head, mounted on the handle, and
within the head, a plurality of phase change materials, the phase change materials having different recrystallization/renucleation rates.

37. A razor cartridge comprising:
a housing;
a razor blade mounted in the housing; and
within the housing, a phase change material.

38. A razor comprising:
a handle,
a head, mounted on the handle,

within the head, a phase change material, wherein melting of the phase change material thermally charges the razor, and

an indicator, visible to a user of the razor, constructed to provide a visual indication to the user to indicate whether the razor is thermally charged.

39. The razor of claim 38 wherein the visual indication comprises a color change.

40. The razor of claim 39 wherein the indicator comprises a thermochromic material.

41. The razor of claim 38 wherein the indicator comprises a strip positioned on the razor head.

42. The razor of claim 38 wherein the indicator comprises a thermochromic material distributed through the material of the head.

43. The razor of claim 38 wherein the indicator is constructed to indicate the degree to which the razor is thermally charged.

44. The razor of claim 38 wherein the indicator displays an alphanumeric indicia or logo to indicate when the razor is thermally charged.

45. The razor of claim 44 wherein the indicia or logo appears when the razor is thermally charged.

46. A razor comprising:
a handle,
a head, mounted on the handle, and
within the handle, a phase change material.

47. A razor comprising:
a handle,

a head, mounted on the handle,
within the head, a phase change material, wherein melting of the phase change material thermally charges the razor, and
on the head, a strip constructed to deliver a lubricious substance to the user's skin;
wherein the phase change material is positioned with respect to the strip so as to increase the rate of delivery of the lubricious substance relative to the rate at which it would be delivered if the phase change material were not present.

48. A method of shaving comprising:

- (a) contacting a razor head containing a phase change material with water that is sufficiently warm to melt the phase change material, and then,
- (b) contacting the skin with the razor head.

49. The method of claim 48 further comprising repeating steps (a) and (b) during shaving.

50. The method of claim 48 wherein the razor head includes an indicator constructed to indicate to the user whether the phase change material has melted, and the method further ~~comprises observing the indicator.~~